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a first layer formed on an opposite side of the magnetic layer relative to the substrate, said first layer including an amorphous alloy layer containing rare earth metals and 3d transition metals as a main component; and

2. The perpendicular magnetic recording medium according to claim 1, wherein said first layer is a multilayer film including the amorphous alloy layers containing the rare earth metals and the 3d transition metals as the main component and other layers.

4. The perpendicular magnetic recording medium according to claim 1, wherein a thickness of said first layer ranges from 2 nm to 10 nm.

5. The perpendicular magnetic recording medium according to claim 1, wherein said first layer contains one of TbFeCo, TbCo and TbFe as a main component.

~~6. The perpendicular magnetic recording medium according to claim 1, wherein said second layer is formed of Co and Cr.~~

7. The perpendicular magnetic recording medium according to claim 1, wherein a thickness of said second layer ranges from 0.5 nm to 10 nm.

8. A magnetic storage apparatus comprising:

a perpendicular magnetic recording medium;

a signal reproduction head,

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